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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONCIDATATIONA
10/605,251	09/18/2003	Ilia Natanovich Geifman	ATTORNET DOCKET NO.	CONFIRMATION NO. 2250
	7590 11/26/2004		EXAMINER	
LEONID KH 4920 BRAINA			BRUNSMAN, DAVID M	
ORANGE, OH 44022			ART UNIT	PAPER NUMBER
			1755	
			DATE MAILED: 11/26/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Comme	10/605,251	GEIFMAN ET AL.
Office Action Summary	Examiner	Art Unit
The MAN DATE	David M Brunsman	1755
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, and a lift NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b). Status	ON. R 1.136(a). In no event, however, may a real section. The reply within the statutory minimum of third riod will apply and will expire SIX (6) MON atute, cause the application to become AB railing date of this communication, even if the section is the section of the section of the section.	reply be timely filed by (30) days will be considered timely. ITHS from the mailing date of this communication
1) Responsive to communication(s) filed on _	_	
2a) ☐ This action is FINAL. 2b) ☑ T	his action is non-final.	
3) Since this application is in condition for allow	wance except for formal matte	ers, prosecution as to the merits is
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D.	. 11, 453 O.G. 213.
Disposition of Claims		
4) Claim(s) 1-21 is/are pending in the application 4a) Of the above claim(s) is/are withded 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) 1-21 are subject to restriction and/of the specification is objected to by the Examination The drawing(s) filed on is/are: a) and applicant may not request that any objection to the Replacement drawing as the title is the specific at the sp	lrawn from consideration. or election requirement. ner. ccepted or b) □ objected to be the drawing(s) be held in abevance	e See 37 CFR 1.85(a)
11) The oath or declaration is objected to by the I	ection is required if the drawing/s) is objected to Con 27 OFD 4 1044
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. Its have been received in Appoints documents have been received are the secondary documents have been received.	olication No eceived in this National Stage
ttachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/M	nmary (PTO-413) fail Date mal Patent Application (PTO-152)

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Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-4, drawn to a single crystal, classified in class 501, subclass 134.
- II. Claims 5-8, drawn to a method of making a single crystal, classified in class117.
- III. Claims 9-14, drawn to a microwave resonator, classified in class 217, subclass 756.
- IV. Claims 15-17, drawn to an EPR spectrometer, classified in class 324, subclass 316.
- V. Claims 18-21, drawn to a NMR spectrometer, classified in class 324, subclass 307.

The inventions are distinct, each from the other because of the following reasons:

Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product could be made by a materially different process such as one using a tantalum/group (V) metal alloy foil.

Inventions I and III, IV & V are related as mutually exclusive species in an intermediate-final product relationship. Distinctness is proven for claims in this relationship if the intermediate product is useful to make other than the final product (MPEP § 806.04(b), 3rd paragraph), and the species are patentably distinct (MPEP § 806.04(h)). In the instant case, the intermediate product is deemed to be useful as a solid single crystal monolith (each of the group III, IV and V requiring a through hole in the crystal) and the inventions are deemed patentably distinct since there is nothing on this record to show them to be obvious variants. Should applicant traverse on the ground that the species are

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not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions anticipated by the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention. As group II is a method of making the invention of I it is similarly distinct from the products of groups III, IV and V.

Inventions III, IV and V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions are not disclosed as capable of use together and have different modes of operation.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

A telephone call was made to Leonid Khodor on 22 November 2004 to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to David M Brunsman whose telephone number is 571-272-1365. The examiner can normally be reached on M, W, F, Sa; 6:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Bell can be reached on 571-272-1362. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

David M Brunsman Primary Examiner Art Unit 1755

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